

PATENT CLAIM

1. Centrifugal pump for pumping of liquids containing pollutions
mainly in the form of solid particles, which pump comprises a
drive unit, a hydraulic unit, whereby the hydraulic unit comprises
5 a pump housing (20) and a pump impeller (12) rotationally
arranged inside the housing, the pump impeller comprising an
upper (14) and a lower (16) cover disc and a number of
intermediate vanes (18), characterized in that a bottom wall (22)
of the pump housing, having a central inlet opening (24), is
10 arranged with at least one swept back flow affecting means (32,
34) on the side facing the lower cover disc extending parts of or
full turns around the inlet opening.
2. Centrifugal pump according to claim 1, characterized in that the
15 back flow extending means is arranged as grooves (32) in the
bottom wall.
3. Centrifugal pump according to claim 1, characterized in that the
20 back flow extending means is arranged as ridges (34) in the
bottom wall.
4. Centrifugal pump according to any of the preceding claims,
characterized in that a wall part of the back flow affecting means
facing towards the inlet forms an angle (α) with the plane of the
25 bottom wall which is in the range 85 to 95 degrees.